

**ALW**

Int. 6/25?

09/482840

6/27/03

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Results of Search in db for:

consider [SPEC/"black box server" AND SPEC/rights:] 0 patents.

No patents have matched your query

REF

→ Othmer et al. (US Pat.6167358) do not disclose a DRM system requests the black box from the black box server; and the black box server generates a black box for performing decryption and encryption functions.

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United States Patent Application 20020007456  
Kind Code A1

→ Peinado, Marcus ; et al. January 17, 2002  
Secure processor architecture for use with a digital rights management (DRM) system on a computing device

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→ United States Patent Application 20020012432  
Kind Code A1

England, Paul ; et al. January 31, 2002  
Secure video card in computing device having digital rights management (DRM) system

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→ United States Patent Application 20020013772  
Kind Code A1

Peinado, Marcus January 31, 2002  
Binding a digital license to a portable device or the like in a digital rights management (DRM) system and checking out / checking in the digital license to / from the portable device or the like

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Searching ...

Results of Search in db for:

SPEC/"black box server" AND SPEC/rights: 0 patents.

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→ You looked for the following: ((black W box W server)) <TITLE OR ABS>  
1 matching documents were found.

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Patent Number Title

→ WO0057684 METHOD FOR OBTAINING A BLACK BOX FOR PERFORMING DECRYPTION AND ENCRYPTION FUNCTIONS IN A DIGITAL RIGHTS MANAGEMENT (DRM) SYSTEM

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METHOD FOR OBTAINING A BLACK BOX FOR PERFORMING DECRYPTION AND ENCRYPTION FUNCTIONS IN A DIGITAL RIGHTS MANAGEMENT (DRM) SYSTEM

Patent Number: WO0057684

Publication date: 2000-10-05

Inventor(s): VENKATESAN RAMARANTHAM; ENGLAND PAUL; PEINADO MARCUS

Applicant(s): MICROSOFT CORP (US)

Requested Patent: WO0057684

Application Number: WO2000US04946 20000225

Priority Number(s): US19990126614P 19990327; US19990290363 19990412; US20000482840 20000113

IPC Classification:

EC Classification: G06F1/00N7R2, G06F17/60B

Equivalents: AU3380900

Cited Documents: WO9809209; EP0665486; EP0887723; EP0715245

Abstract

A digital rights management (DRM) system operates on a computing device and requires a black box for performing decryption and encryption functions. To obtain the black box from a black box server, the DRM system requests such black box from such black box server. The black box server in response generates the black box, where such black box is unique and has a public/private key pair. The black box server then delivers the generated black box to the DRM system and the DRM system installs the delivered black box in such DRM system.

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You looked for the following: ((black W box) AND encryption AND right s)<TITLE OR ABS>

4 matching documents were found.

To see further result lists select a number from the JumpBar above.

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Patent Number Title

WO0152471 PRODUCING A NEW BLACK BOX FOR A DIGITAL RIGHTS MANAGEMENT (DRM) SYSTEM

WO0152021 DIGITAL RIGHTS MANAGEMENT SYSTEM OPERATING ON COMPUTING DEVICE AND HAVING BLACK BOX TIED TO COMPUTING DEVICE

*considered* AU3380900 Method for obtaining a black box for performing decryption and encryption functions in a digital rights management (drm) system

WO0057684 METHOD FOR OBTAINING A BLACK BOX FOR PERFORMING DECRYPTION AND ENCRYPTION FUNCTIONS IN A DIGITAL RIGHTS MANAGEMENT (DRM) SYSTEM

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PRODUCING A NEW BLACK BOX FOR A DIGITAL RIGHTS MANAGEMENT (DRM) SYSTEM

Patent Number: WO0152471

482840alw

Publication date: 2001-07-19

Inventor(s): DAVIS MALCOLM; PEINADO MARCUS; VENKATESAN RAMARATHNAM

Applicant(s): MICROSOFT CORP (US)

Requested Patent: WO0152471

Application Number: WO2000US23106 20000822

Priority Number(s): US20000176425P 20000114; US20000525509 20000315

IPC Classification: H04L9/08; G06F1/00

EC Classification:

Equivalents: AU6927900

Cited Documents: WO9833106; EP0679978; EP0735719; EP0387599; US5883955

## Abstract

A new ((n)th) black box is produced for a digital rights management (DRM) system. The (n)th black box is for being installed in and for performing decryption and encryption functions in the DRM system. The (n)th black box is produced and delivered to the DRM system upon request and includes a new ((n)th) executable and a new ((n)th) key file (82). The (n)th key file (82) has a new ((n)th) set of black box keys and a number of old sets of black box keys. The request includes an old ((n-1)th) key file (82) having the old sets of black box keys. A code optimizer/randomizer (78) receives a master executable (80m) and randomize d optimization parameters (81) as inputs and produces the (n)th executable as an output. A key manager (84) receives the (n-1)th key file (82) and the (n)th set of black box keys as inputs, extracts the old sets of black box keys from the (n-1)th key file (82), and produces the (n)th key file (82) including the (n)th set of black box keys and the old sets of black box keys as an output. The (n)th executable and the (n)th key file (82) are forwarded to the requesting DRM system.

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DIGITAL RIGHTS MANAGEMENT SYSTEM OPERATING ON COMPUTING DEVICE AND HAVING BLACK BOX TIED TO COMPUTING DEVICE

Patent Number: WO0152021

Publication date: 2001-07-19

Inventor(s): GANESAN KRISHNAMURTHY; LIU DONNA; PEINADO MARCUS

Applicant(s): MICROSOFT CORP (US)

Requested Patent: WO0152021

Application Number: WO2000US23108 20000822

Priority Number(s): US20000176425P 20000114; US20000526290 20000315

IPC Classification: G06F1/00

EC Classification: G06F1/00N7R2

Equivalents: AU6928100

Cited Documents: EP0679980; WO9802793; EP0778512; EP0613073

## Abstract

A digital rights management (DRM) system operates on a computing device (14) when a user requests that an encrypted piece of digital content

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be rendered by the computer device (14). The computing device (14) has an identifier. A black box (30) performs decryption and encryption functions in the DRM system. The black box (30) includes a key file and an executable. The key file includes at least one black box public key and is expected to include the identifier of the computing device (14), the black box (30) thus being tied to the computing device (14) by inclusion of such first identifier. A digital license (16) corresponding to the digital content is resident in the DRM system and includes a decryption key for decrypting the encrypted digital content. The decryption key is expected to be encrypted according to the black box public key of the key file of the black box (30), the license (16) thus being tied to the black box (30) and by extension the computing device (14). If the identifier of the computing device (14) is in fact different than the identifier in the key file of the black box (30), a different key file is produced based on the black box public key(s) of the key file and the different identifier of the computing device (14).

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METHOD FOR OBTAINING A BLACK BOX FOR PERFORMING DECRYPTION AND ENCRYPTION FUNCTIONS IN A DIGITAL RIGHTS MANAGEMENT (DRM) SYSTEM

*Consider* Patent Number: WO0057684

Publication date: 2000-10-05

Inventor(s): VENKATESAN RAMARANTH NAM; ENGLAND PAUL; PEINADO MARCUS

Applicant(s): MICROSOFT CORP (US)

Requested Patent: AU3380900

Application Number: WO2000US04946 20000225

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Abstract

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3 matching documents were found.

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Patent Number Title

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WO0152021 DIGITAL RIGHTS MANAGEMENT SYSTEM OPERATING ON COMPUTING DEVICE AND HAVING BLACK BOX TIED TO COMPUTING DEVICE

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